# The NOVUS 650/950 Calculator

## NOVUS

Consumer Products from National Semiconductor

NS216EFGSP

Printed in U.S.A.



### Operating Instructions for your NOVUS personal calculator.

Warning: Power switch MUST be in OFF position (to left) before connecting battery or AC wallplug adapter.

Your NOVUS calculator is manufactured by National Semiconductor Corporation, one of the world's leading producers of integrated circuits. The advanced design makes it easy to use in everyday operations.

If you've used other calculators, you'll probably find this one is a little different. Your NOVUS calculator uses the same mathematical "language." or logic system, as many computers and advanced scientific calculators. We chose this powerful language for your calculator because people who use math in their professional lives believe it's the most logical, consistent and efficient way to solve problems. Your NOVUS calculator lets you approach each problem the same direct way, displays each intermediate step you take, lets you easily correct wrong entries, and often takes fewer keystrokes to get an answer. After you do a few simple calculations, you'll quickly see how easy it is to use. Once you're used to it and discover the accuracy and computational power it gives you, we're confident you'll come to prefer the way your NOVUS calculator tackles math.

To clear: Press the CE/C key twice to clear everything and once to clear a wrong number entry.

Keyboard memory: The ENT+ key is used to add, or enter the first figure into the keyboard memory. No matter what arithmetic function you plan, always press the ENT+ key after entering the first number.

Repeat add or subtract: Each time the ENT+ or when is touched, the last number is added (or subtracted). See examples A and B. (Page 29)

Automatic squaring: Any entered number is squared by touching the  $\boxtimes$  key. See example D. (Page 29) Overflow: When the number exceeds the capacity of the display, it overflows and shows one or more E's.

Decimal point: Fixed two-place decimal point is used for addition and subtraction only.

Finding decimal in division: For decimal accuracy in division, enter number to be divided (dividend), then fill display with as many zeroes as it will hold. Then enter the divisor, eliminating insignificant zeroes, and touch [-]. To determine the proper decimal place in the answer, just remember this rule: the number of decimal places in the dividend (numerator) minus the number of decimal places in the divisor (denominator) equals the number of decimal places in the answer (quotient). See example F. (Page 29)

Low battery: If display appears dim or answers seem wrong, replace battery immediately.

#### NOVUS Consumer Warranty Certificate Model 650/950

NOVUS, the consumer products division of National Semiconductor Corporation, is proud to quarantee your electronic calculator to be free from defects in workmanship and material for a period of 1 year from the date of your purchase. Defects caused by abuse, accidents, modifications, negligence, misuse or other causes beyond the control of NOVUS are, of course, not covered by this warranty, nor are batteries. Should the calculator prove defective within 30 days of purchase, NOVUS will repair or, at its discretion, replace it free of charge. If the defect occurs after 30 days from date of purchase, a charge of US\$3.50 (or equivalent) will be made for handling and insurance. If your calculator becomes defective after the 1 year period, NOVUS will make repairs for a nominal charge of U.S. \$7.50 (or equivalent). Simply mail it prepaid and insured with your check or money order to the nearest NOVUS service center. Repair prices are subject to change without notice. Please do not send or include cash. Make your check or money order payable to NOVUS. Upon receipt, your calculator will promptly be serviced and returned to you freight prepaid.

#### A few words about National Semiconductor.

National Semiconductor Corp., a global organization with its home base in Sunnyvale, California, is one of the largest manufacturers of integrated circuits in the world. Through its consumer products division, NOVUS, National Semiconductor is striving to translate pure technology into practical and affordable tools. You now own one such tool. We hope it serves you well in the years to come. Should you have questions about this or any other products from NOVUS, drop us a line.

We're here.

NOVUS 1177 Kern Avenue Sunnyvale, CA 94086, U. S. A.



- Jack for AC wallplug adapter. Branchez la rallonge-secteur. Buchse für Netzanschluss-adapter. Receptáculo para adaptador de c.a. Contacto para o pino adaptador de c.a.
- Power switch MUST BE OFF before connecting battery or adapter. L'interrupteur DOIT ÊTRE sur OFF avant de brancher sur pile ou sur secteur. Schalter muss in Aus-Stellung (OFF) sein, bevor Batterie oder Netz angeschlossen werden. El interruptor de corriente debe estar en la posición OFF (apagado) antes de conectar la pila o el adaptador. A chave de liga-desliga deve estar na posição "OFF" (desliga) antes de conectar a pilha ou o adaptador.
- 3 Press CE/C key once to clear wrong entry and twice to clear all entries in the calculator.

  Appuyez une seule fois sur CE/C pour eliminer une entrée erronée etdeux fois sur CE/C pour effacer totalement. CE/C Taste einmal drücken, um falsche Eingabe zu löschen.

  CE/C Taste zweimal drücken um alles zu löschen. Oprima la tecla CE/C una vez para borrar un número ingresado erróneamente o dos veces para borrar todas las cantidades ingresadas anteriormente. Pressione a tecla CE/C uma vez para apagar uma entrada errada e duas vezes para apagar todas as entradas anteriores.
- Use 9-volt alkaline battery for longer life.

  Pour une plus grande durée utilisez une pile

  alcaline de 9 volts. 9 Volt-Alkalibatterie

verwenden für längere Betriebsdauer. Utilice una pila de 9 V para aumentar la duración. Use uma pilha alcalina de 9 V para vida mais longa.

- Fixed two-place decimal point is used for addition and subtraction only. Pour l'addition ou soustraction le point est pré-fixé et ne laisse que deux places-décimales. Feste zweistellige Dezimaleinteilung nur für Addition und Subtraktion. El punto fijo con dos lugares decimales se usa solamente para suma o resta. O ponto decimal fixo, de duas casas, é usado apenas para adição e subtração.
- Always enter (add) first number into keyboard memory with ENT+ key. Entrez (ou additionnez) toujours le premier nombre dans la mémoire en appuyant sur la touche ENT+. Immer erste Nummer in den Speicher mit der ENT+ Taste eingeben (addieren). Siempre ingrese (o agregue) el primer número en la memoria del teclado con la tecla ENT+. Sempre introduza ou adicione o primeiro número na memória com a tecla ENT+.

Examples. Exemples. Beispiele. Ejemplos.	Press Touche Taste	Display Ecran
Exemplos.	Pulsar Pressione	Anzeige Pantalla Mostrador
A 123 + 45 _	CE/C CE/C	. 0
600 = -432	123 ENT +	1.23
	45 ENT +	1.68
	600	-4.32
$8 5.00 \div 5.00 = 10.00$	CE/C CE/C	. 0
	500 ENT +	5.00
	500 ENT+	10.00
C 6 X 2 = 12	CE/C CE/C	. 0
	6 ENT +	. 6
	2 🔀	.12
D 62 = 36	CE/C CE/C	. 0
	6 ENT+	. 6
	$\boxtimes$	.36
$E 6 \div 2 = 3$	CE/C CE/C	. 0
	6 ENT+	. 6
	2 🖶	. 2
$F 20 \div 7 = 2.8571$	CE/C CE/C	
200	2000 ENT +	
	7 🗔	285 71

(The 4 decimal places in the dividend minus 0 decimal places in the divisor equals the 4 decimal places in the quotient.) • (4 places-décimales dans le dividende moins 0 place-décimale dans le diviseur, égales 4 places-décimales dans le quotient.) • (4 places-décimales des places decimales des dividendo menos 0 lugares decimales en el divisor son iguales a los cuatro lugares decimales en el cuociente.) • (As 4 casas decimais do dividendo, menos 0 casas decimais no divisor é igual a 4 casas decimais no quociente.)

#### **NOVUS WARRANTY CERTIFICATE**

Please retain for your records. See insert for trouble-shooting tips and product service locations.

#### CERTIFICAT DE GARANTIE NOVUS

Veuillez le garder pour référence. Voir le livret ci-joint pour tous renseignements concernant les problèmes possibles et la location des agences de service NOVUS.

#### **NOVUS GARANTIESCHEIN**

Diesen Teil behalten Sie für Ihre eigenen Unterlagen. Für Hinweise bei Störungen und NOVUS Kundendienst-Anschriften siehe Beilage.

#### CERTIFICADO DE GARANTIA NOVUS

Sírvase conservarlo para caso de consulta. Véase el folleto adjunto titulado "Consejos para localizar fallas y Centros de Servicio de Productos" NOVUS.

#### CERTIFICADO DE GARANTIA NOVUS

Por obséquio conserve consigo para seu contrôle. Consulte o folheto em anexo intitulado: "Lembretes para a Localização de Defeitos e Centros de Serviço de Produtos" NOVUS. Model / Modèle / Modell Modelo / Modelo

Serial No. / No. de serie / Seriennummer No. de serie / Número de Série

Purchased from / Nom du vendeur / Bezogen von Comprada en / Nome do Fornecedor

Date Purchased / Date d'achat / Tag des Kaufes Fecha de compra / Data de compra